Attachment 1

RDT SITE PRIORITIZATION FORM

(Attach site maps and environmental data summaries)

Date <u>5/31/06</u>		
Site Name <u>United Zinc Site, K</u>	SN000705026	(6180: United 21 be
Site Location Iola, Allen Cou	enty, Kansas	ED # <u>USNOOD 1050</u> ED 301: 5.0
Last Site Assessment Action	May, 2006	Other: <u>5-4-06</u>
Statement of Purpose / Issues	to be discussed or Decision wan	ited:
	e on clean-up action requested by a exposure due to the presence of	
- -	ntamination ants of concern: Volume, Concen , EBL's, RAL's, etc.), and Media	•
yards have been sampled for soi concentrations greater than 1200	at the site is primarily lead in soil lead content. Of the yards samp ppm, contain lead concontain lead concentrations below re listed in the table below.	oled, contain lead entrations between 400 ppm
< 400 ppm lead	> 400 ppm, < 1200 ppm lead	> 1200 ppm lead
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2. Site/Contaminant Stability
Briefly describe the means and likelihood that contamination could impact other areas/media.

Lead and arsenic are currently present in soils above levels of concern. These contaminated soils may migrate via airborne dusts, surface runoff, percolation into groundwater, and by people and pets transporting soils or dusts into their homes from the affected areas. There are two creeks located within one mile of the site that may be affected by surface water run-off.

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SUPERFUND RECORDS

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3. Public/Human Health Exposures/Risks
Briefly discuss the exposure risk(s), such as - direct contact w/ media (soil, water and/or air). Inhalation risks (vapor intrusion concerns), synergistic effects of multiple contaminant exposures, and population affected should be presented.

Primary exposure route for lead and arsenic is ingestion from direct contact with soil or other contaminated media. Soils with lead levels above RSK values have been found in residential yards and one school yard. The presence of these contaminants poses a risk of exposure to sensitive receptors (i.e. children) in the effected area. The data from the 2006 sampling of this area is provided as and attachment.

4. Ecological Risks

5. Known State/Public Concerns or Issues
Briefly discuss any concerns or issues that have been raised by the local leadership, the
affected community, and State or other public officials.

The state of Kansas has requested that EPA conduct a time-critical removal action at this site. The state of Kansas also requests the opportunity to conduct the post-removal site assessment.

6. Costs/Options:

Provide a rough estimate of the total costs involved for each proposed course of action being considered. Include all estimated costs (e.g., sampling, analysis, response action, long-term costs, etc.).

Residential areas:

residential yards with lead ppm > 1200 residential yards with lead ppm > 400

McKinley School:

samples with lead ppm > 1200

samples with lead ppm > 400

Option 1: Phase 1 – Remove soil with lead concentration >1200 Phase 2 – Remove soil with lead concentration 400 - 1200 Soil lead concentration > 1200 ppm lead Remove/replace 4 residential yards and west side of school yard						
Residential yards	4 x \$15,000	60,000				
West side of school yard	2 x \$15,000	30,000				

Sub-Total Cost	\$ 90,000		
Soil lead concentration 400-12	200 ppm		
Remove/replace 14 residential	yards and south and	east side of school yard	
Phase 2			
Residential yards	14 x 15,000	210,000	
South and east side of school yard	3 x 15,000	45,000	
Sub-Total Cost		\$ 255,000	
Total Cost		\$ 345,000	
Option 2:			
Remove/replace 18 residential	yards and perimeter	of school yard	
Residential yards	18 x \$15,000	270,000	
Perimeter of school yard	5 x \$15,000	75,000	
Total Cost		\$ 345,000	

Politics:

There are additional yards that have yet to be sampled that may be contaminated with lead above health-based levels of concern. This fact will increase the total costs for this removal action, potentially up to one million dollars.

*RDT Decision:

The lead contamination levels present in residential yards warrant a time-critical removal action consideration; however, additional information is necessary before the removal action is initiated.

Action Items

- 1. CNSL Assign an attorney to the site. CNSL will assess the thoroughness of the KDHE PRP search activities and determine next steps.
- 2. SUPR Removal Program Initiate a federal-lead (EPA) removal site evaluation to supplement the site assessment information gathered by KDHE. The information collected will better delineate the extent of contamination (the number of contaminated yards) and assess risk.
 - a. Future assessment activities (conducted by KDHE and USEPA) at lead-contaminated sites must follow the OSWER Directive #9200.4-27P, dated August 1998, Clarification to the 1994 Revised Interim Soil Lead (Pb) Guidance for CERCLA sites and RCRA Corrective Action Facilities and OSWER Directive #9285.7-50, dated August 2003, Superfund Lead-Contaminated Residential Soils Handbook. More specifically, soil samples must be collected from the surface (0-1 inch) to appropriately characterize human-health risk.
 - b. Coordinate with KDHE and local Health Department officials to determine if there is any existing information related to blood-lead levels in children. Collect the latest census data available and quantify the number of children (and their ages) residing in homes where soil lead concentrations are > 1,200 ppm and > 400 ppm, respectively.
 - c. Determine bioavailability of lead contaminating residential yards and the smelter site (slag/chat).

- d. Determine the current availability and use of the smelter slag/chat in the area.
- e. Confirm the prevailing wind direction and pattern of airborne smelter deposition.
- f. Assess the extent and depth of lead contamination on the smelter operation site itself to better evaluate removal action options and total project cost.
- g. Assess sediment and water quality sample collection activities that have been completed. Work closely with WWPD and KDHE to determine the acute and chronic water quality standards are for streams and tributaries in the area (eco-risk assessment).
- h. Work up a more accurate cost estimate, based on additional information collected during the EPA removal site evaluation.
- 3. Assess the site sampling protocols currently in use by the KDHE.
 - a. Example KDHE surface samples collected for the state-lead removal site evaluation were taken at 0-3" depth; for risk assessment purposes, the surface soil samples should have been collected from 0-1" depth. Make sure the recommendations for quadrant sampling are being utilized when assessing lead contamination in residential yards (vs. grab samples). Communicate site assessment sampling expectations with KDHE. See 2. a. above
- 4. Coordinate with KDHE, local health Department, Bruce Morrison, FFSE (RPM), Mike Berringer WWPD/DISO (toxicologist) in the development of the site-specific sampling plan that will be part of the EPA Removal Site Evaluation (RSE).

RDT Members Present:

- 1. Ken Buchholz/Katy Miley
- 2. Craig Smith
- 3. Dan Shiel
- 4. Gene Gunn
- 5. Bill Pedicino
- 6. Jeff Field
- 7. Mary Carter
- 8. Bob Jackson
- 9. Glenn Curtis
- 10. Janice Kroone
- 11. Jeremy Johnson
- 12. Mike Berringer
- 13. Terri Johnson

Date:		

* If consensus cannot be reached in the RDT session, then action items will be established, i.e., collect additional information necessary in making a decision. Upon completion of the action items the Project Manager can request that the RDT reconvene to make a decision. It is the site managers responsibility to share the RDT decision with the state and to place the RDT decision or RDT action items in the official site file in the Superfund Records Center.